

# United States Department of the Interior

BUREAU OF LAND MANAGEMENT  
Arizona State Office  
One North Central Avenue, Suite 800  
Phoenix, Arizona 85004-4427

February 14, 2014

In Reply Refer To:  
9015 (9320) P

EMS TRANSMISSION 02/18/2014  
Instruction Memorandum No. AZ-2014-007  
Expires: 9/30/2015

To: District Managers and Field Managers  
Attention: Weeds Program Leads

From: State Director

Subject: Weed Inventory/Mapping Update

DD: 2/25/2014

**Purpose:** Weed population information, compiled by the State, will be incorporated into the updated Vegetation Treatments Environmental Impact Statement and provided to the Department of the Interior, Congress, Federal, State and County agencies.

**Policy/Action:** Each Field Office is asked to provide the most recent accurate weed inventory data (post 2000) using the attached form (Attachment 1). The form includes a list of non-native invasive plant species that has been identified and verified by the Bureau of Land Management (BLM) National Weed Team for inclusion in this data call. Field personnel can provide additional weed species inventory data collected in their Field Office for species not listed on the form by adding additional lines to the form.

In reporting the data for each species, there are four types of data to consider: net infested inventoried acres, gross infested inventoried acres or gross infested estimated acres, and location. Each Field Office should report any existing information from previous or current on-the-ground inventories. Attachment 2 provides definitions associated with the gathering of the data, along with instructions to fill out the form. It is extremely important for the Field Offices to spend the necessary time compiling the information and reporting it as accurately as possible to ensure the information presented represents the extent of invasive plant species found on lands the BLM administers.

#### Process and Guidelines:

- The Field Office Weed Inventory Form (Attachment 1) will be completed by each Field Office for the purpose of recording the number of infested acres and location within each Field Office.
- The completed Excel form should be emailed to Lisa Soo, State Weed Coordinator, by February 25, 2014.
- Following the return of all the completed forms, the State Weed Coordinator will send the individual Field Office data forms to the National Operations Center, where they will be summarized.

For those Field Offices that have fully implemented the National Invasive Species Information Management System (NISIMS) and have all of their current and legacy (from 2001 and later) infestation data in the database, the person completing the form should go to the NISIMS SharePoint site at <http://teamspace/projects/nisims> where directions for using the NISIMS data retrieval tool is outlined. This tool will output all the necessary acreage summaries required for this data call. All legacy infestation data that was submitted to the Washington Office (WO) in accordance with the three previous Instruction Memorandums (IM) have been incorporated into the NISIMS database, and should be available for completing the data call using the NISIMS data retrieval tool.

If only partial or incomplete infestation data was submitted during the identified data calls, and/or if current infestation data is not being captured using NISIMS, the Field Office can use the NISIMS data retrieval tool to extract acreage summaries from the NISIMS database, but will also have to manually compile NISIMS output acreage values with acreages from other data sources to complete this data call.

**Timeframe:** Due February 25, 2014.

**Budget Impact:** None.

**Background:** At the end of Fiscal Year (FY) 2000, the BLM compiled noxious and invasive weed information to determine the acreage that included both on-the-ground inventories and estimates of invasive non-native plants on BLM lands. At the same time, the BLM began preparing data definitions for the NISIMS, and has since completed data standards for Invasive Species Management Area; Invasive Species Survey Area; and Invasive Species Infestation Area. All data definitions comply with the North American Weed Management Association data standards.

In FY 2008, IM No. 2007-159 requested all Field Offices to submit any spatial or tabular legacy data, which included the names of the target species and the boundary of the individual infestations either in digital or manual format for the NISIMS database. In FY 2012, a second request for all invasive species inventory data, both paper and/or digital, was sent out for the purpose of inclusion into the NISIMS database. In FY 2013, the NISIMS database was fully deployed and the Washington Office (WO) issued IM No. 2013-074 requiring all Field Offices

to report the collection of all field inventories, treatment and monitoring data pertaining to invasive species, including any spatial or tabular invasive species data, into the NISIMS system.

Legacy data provided by States to be included in the NISIMS database includes data being available back to 2000 for State and Field Offices responding to the data calls. These data will make available data for the inventory update, provided data in NISIMS represents a complete report, from 2000 to the present for the species identified.

**Directives Affected:** The BLM Manual Section 9015, Integrated Weed Management, and BLM Manual 9011, Chemical Pest Control (IPM Handbook), in future revisions.

**Coordination:** This IM was coordinated with the Renewable Resources and Planning Branch, Resources Division, in the Arizona State Office.

**Contact:** If you have any questions regarding this data call, please contact Lisa Soo, Invasive and Noxious Weeds Program Coordinator, at 602-417-9242, and for technical questions concerning the NISIMS data retrieval process, please contact Dave Wilson, State GIS Coordinator, at 602-417-9327.

SIGNED BY  
Gera Ashton  
for Raymond Suazo

AUTHENTICATED BY  
Susan Williams  
Staff Assistant

2 Attachments:

- 1 - [Field Office Weed Inventory Form](#)  
(4 pp) *Attachment 1 links to Excel version of form.*
- 2 - [Field Office Weed Inventory Instructions](#) (2 pp)

## FIELD OFFICE WEED INVENTORY FORM

Date: \_\_\_\_\_ State: \_\_\_\_\_

Field Office, Resource Area, or Monument: \_\_\_\_\_

Number of BLM Acres in Field Office, Resource Area, or Monument:: \_\_\_\_\_

Number of BLM Acres in Field Office, Resource Area, or Monument Inventoried: \_\_\_\_\_

Point of Contact: \_\_\_\_\_

Point of Contact Phone #: \_\_\_\_\_

Email: \_\_\_\_\_

Group	Common Name	Scientific Name	USDA Plants Database Code(s)	Net Infested Inventoried Acres	Gross Infested Inventoried Acres	Gross Infested Estimated Acres	Location: T-R-S	Comments
	Downy Brome/Cheatgrass	<i>Bromus tectorum</i> L.	BRTE					
	Red Brome	<i>Bromus rubens</i> L.	BRRU2					
	Buffelgrass	<i>Pennisetum ciliare</i> (L.) Link	PECI					
	Mediterranean Grass	<i>Schismus barbatus</i> (Loefl. Ex L.) Thell.	SCBA					
	Medusahead Rye	<i>Taeniatherum caput-medusae</i> (L.) Nevski	TACA8					
<b>Goosefoot Family</b>								
	Halogeton	<i>Halogeton glomeratus</i> (M. Bieb.) C.A. Mey	HAGL					
<b>Knapweed Complex:</b>								
	Russian Knapweed	<i>Acroptilon repens</i> (L.) DC	ACRE3					
	Spotted Knapweed	<i>Centaurea biebersteinii</i> DC	CEBI2, CEST8, CEMA4					
	Diffuse Knapweed	<i>Centaurea diffusa</i> Lam.	CEDI3					
	Squarrose Knapweed	<i>Centaurea virgata</i> Lam. var <i>squarrosa</i> (Boiss.) Gugler	CEVIS2, CEVI, CETR8					

**FIELD OFFICE WEED INVENTORY FORM**

Group	Common Name	Scientific Name	USDA Plants Database Code(s)	Net Infested Inventoried Acres	Gross Infested Inventoried Acres	Gross Infested Estimated Acres	Location: T-R-S	Comments
<b>Mustards:</b>								
	Hoary Cress/Whitetop	<i>Cardaria draba</i> (L.) Desv.	CADR					
	Perennial Pepperweed	<i>Lepidium latifolium</i> L.	LELA2					
	Dyer's Woad	<i>Isatis tinctoria</i> L.	ISTI					
<b>Spurge Family:</b>								
	Leafy Spurge	<i>Euphorbia esula</i> L.	EUES, EUESE					
<b>Starthistles:</b>								
	Malta Starthistle	<i>Centaurea melitensis</i> L.	CEME2					
	Yellow Starthistle	<i>Centaurea solstitialis</i> L.	CESO3					
<b>Thistles:</b>								
	Canada Thistle	<i>Cirsium arvense</i> (L.) Scop.	CIAR4					
	Bull Thistle	<i>Cirsium vulgare</i> (Savi) Ten.	CIVU					
	Plumeless Thistle	<i>Carduus acanthoides</i> L.	CAAC, CARDU					
	Musk Thistle	<i>Carduus nutans</i> L.	CANU4					
	Italian Thistle	<i>Carduus pycnocephalus</i> L.	CAPY2					
	Scotch Thistle	<i>Onopordum acanthium</i> L.	ONAC					
	Turian Thistle	<i>Onopordum tauricum</i> Willd	ONTA					
<b>Toadflaxes:</b>								
	Dalmatian Toadflax	<i>Linaria dalmatica</i> (L.) P. Mill.	LIDA, LIDAD, LIDAM					
	Yellow Toadflax	<i>Linaria vulgaris</i> Miller	LIVU2					
<b>Woody Species:</b>								
	Russian Olive	<i>Elaeagnus angustifolia</i> L.	ELAN					
	Tamarisk Species	<i>Tamarix</i> spp. L.	TAMAR2, TACH2, TAPA4, TARA					

**FIELD OFFICE WEED INVENTORY FORM**

Group	Common Name	Scientific Name	USDA Plants Database Code(s)	Net Infested Inventoried Acres	Gross Infested Inventoried Acres	Gross Infested Estimated Acres	Location: T-R-S	Comments
<b>Other Species:</b>								
	Camelthorn	<i>Alhagi pseudalhagi</i>	ALMA12					
	Jointed goatgrass	<i>Aegilops cylindrica</i>	AECY					
	Tree-of-heaven	<i>Ailanthus altissima</i>	AIAL					
	Mayweed chamomile	<i>Anthemis cotula</i>	ANCO2					
	Common burdock	<i>Arctium minus</i>	ARMI2					
	Absinth wormwood	<i>Artemesia absinthium</i>	ARAB3					
	Giant reed	<i>Arundo donax</i>	ARDO4					
	Fivehook bassia	<i>Bassia hyssopifolia</i>	BAHY					
	Black mustard	<i>Brassica nigra</i>	BRNI					
	Sahara mustard	<i>Brassica tournefortii</i>	BRTO					
	Japanese brome	<i>Bromus japonicus</i>	BRJA					
	Paradise poinciana	<i>Caesalpinia gilliesii</i>	CAGI					
	Lens-podded whitetop	<i>Cardaria chalepensis</i>	CACH10					
	Hairy whitetop	<i>Cardaria pubescens</i>	CAPU6					
	Cornflower	<i>Centaurea cyanus</i>	CECY2					
	Ox-eye daisy	<i>Chrysanthemum leucanthemum</i>	LEVU					
	Chicory	<i>Chichorium intybus</i>	CIIN					
	Poison hemlock	<i>Conium maculatum</i>	COMA2					
	Field bindweed	<i>Convolvulus arvensis</i>	COAR4					
	Artichoke thistle	<i>Cynara cardunculus</i>	CYCA					
	Bermudagrass	<i>Cynodon dactylon</i>	CYDA					
	Houndstongue	<i>Cynoglossum officinale</i>	CYOF					
	Common teasel	<i>Dipsacus fullonum</i>	DIFU2					
	Brazilian elodea	<i>Egeria densa</i>	EGDE					

**FIELD OFFICE WEED INVENTORY FORM**

<b>Group</b>	<b>Common Name</b>	<b>Scientific Name</b>	<b>USDA Plants Database Code(s)</b>	<b>Net Infested Inventoried Acres</b>	<b>Gross Infested Inventoried Acres</b>	<b>Gross Infested Estimated Acres</b>	<b>Location: T-R-S</b>	<b>Comments</b>
	Lemann lovegrass	<i>Eragrostis lehmanniana</i>	ERLE					
	Fennel	<i>Foeniculum vulgare</i>	FOVU					
	Hydrilla	<i>Hydrilla verticillata</i>	HYVE3					
	Everlasting peavine	<i>Lathyrus latifolius</i>	LALA4					
	Sericea lespedeza	<i>Lespedeza cuneata</i>	LECU					
	White horehound	<i>Marrubium vulgare</i>	MAVU					
	Slender-leaf iceplant	<i>Mesembryanthemum nodiflorum</i>	MENO2					
	African rue	<i>Peganum harmala</i>	PEHA					
	Crimson fountain grass	<i>Pennisetum setaceum</i>	PESE3					
	Himalaya blackberry	<i>Rubus discolor</i>	RUDI2					
	Mediterranean sage	<i>Salvia aethiopsis</i>	SAAE					
	Bouncing bet	<i>Saponaria officinalis</i>	SAOF4					
	Arabian schismus	<i>Schismus arabicus</i>	SCAR					
	Blessed milk thistle	<i>Silybum marianum</i>	SIMA3					
	Johnsgrass	<i>Sorghum halepense</i>	SOHA					
	Athel tamarisk	<i>Tamarix aphylla</i>	TAAP					
	Chinese tamarisk	<i>Tamarix chinensis</i>	TACH2					
	Small flower tamarisk	<i>Tamarix parviflora</i>	TAPA4					
	Common tansey	<i>Tanacetum vulgare</i>	TAVU					
	Puncturevine	<i>Tribulus terrestris</i>	TRTE					

## FIELD OFFICE WEED INVENTORY INSTRUCTIONS

### *INSTRUCTIONS FOR FILLING OUT THE FIELD OFFICE WEED INVENTORY FORM*

The vital information on this form is the number of Bureau of Land Management (BLM) ACRES INVENTORIED within the Field Office and the actual infested acres, which are defined as an area of land containing a target invasive plant species, based upon, either, NET INFESTED INVENTORIED ACRES, GROSS INFESTED INVENTORIED ACRES or GROSS INFESTED ESTIMATED ACRES for each identified non-native invasive plant species listed on the form in each Field Office.

#### *Form Field Definitions:*

- **DATE:** Enter the date by month and year.
- **STATE:** Name of the State.
- **FIELD OFFICE:** Name of the Field Office or, if applicable, Resource Area or Monument. The focus being the lowest administrative level at which the data is collected.
- **NUMBER OF BLM ACRES IN FIELD OFFICE:** Enter the total number of acres in the Field Office.
- **NUMBER OF BLM ACRES IN FIELD OFFICE INVENTORIED:** Enter the total number of BLM acres, rounded off to the nearest hundreds of acres, inventoried for invasive plant species in the Field Office.
- **POINT OF CONTACT:** Name of person completing the form.
- **POINT OF CONTACT PHONE NUMBER:** Telephone number of the person completing the form.
- **EMAIL:** Email address of the person completing the form.
- **COMMON NAME:** Common name of the individual inventory species.
- **SCIENTIFIC NAME:** Scientific name of the individual inventory species.
- **NET INFESTED INVENTORIED ACRES:** An area of land containing the species of interest, and is defined by taking the actual perimeter of the infestation as defined by the canopy cover of the plants and multiplying by the decimal percent canopy cover identified. The resulting value is the infested inventoried area having 100 percent canopy cover of the target inventoried species.
- **GROSS INFESTED INVENTORIED ACRES:** An area of land containing the species of interest, and is defined by taking the actual perimeter of the infestation as defined by the canopy cover that has been mapped by GPS or digitized by GIS or other methods accurately identifying what area is infested. The determination is based upon accurate mapping of the infested area, and does not use the canopy cover to calculate the actual acreage.
- **GROSS INFESTED ESTIMATED ACRES:** An area of land containing the species of interest, and is defined as a non-measured value, being an area used to describe an infestation. The gross infested estimated acres may contain significant acres that are not infested by the target species.

***Process and Guidelines:***

For those Field Offices that have fully implemented NISIMS and have all of their current and legacy (from 2001 and later) infestation data in the database, the person completing the form (Attachment 2) should go to the NISIMS SharePoint site <http://teamspace/projects/nisims> where the directions for using the NISIMS data retrieval tool are outlined. This tool will output all the necessary acreage summaries required for this data call. All legacy infestation data that was submitted to the Washington Office, in accordance with the three previous Instruction Memorandums (IM), have been incorporated into the NISIMS database and are available for completing the data call using the data retrieval tool.

If only partial/incomplete data was submitted during the identified data calls, the Field Office can use the NISIMS data retrieval tool to extract acreage summaries from the NISIMS database for that data which was entered into the database, but will have to manually compile the data and enter it on the form using existing information from previous or current on-the-ground inventories.

For those Field Offices which are not presently capturing infestation data in NISIMS, they will have to complete the form through the manual compilation process using previous and current inventories and entering the data under the appropriate column headings.